

ABSTRACT

An object of the present invention is to realize a multi-point data acquisition apparatus which enables communication with multiple measurement modules at high speed.

The present invention improves upon a multi-point data acquisition apparatus comprising a main module which performs serial communication through a serial bus to multiple measurement modules connected to a single-system serial bus. The main module of the present invention is characterized in that it comprises the following: a timing generating unit which outputs a first timing signal and second timing signal; a setting unit which sets multiple transmission destinations which are measurement modules to be engaged in serial communication, and multiple transmission contents, based on the first timing signal; and a communication processing unit which holds the multiple transmission destinations and multiple transmission contents set by the setting unit, and, based on the second timing signal, sequentially sends transmission contents through the serial bus to the multiple measurement modules set as transmission destinations, performing serial communication.